

contact therewith [layers], wherein each layer forms a substantially equipotential surface[, and a solid insulation located between the inner and outer layers].

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Claim 19. (Three times Amended) A rotating asynchronous high voltage converter for connection of AC networks with equal or different frequencies, wherein the converter comprises a first stator for connection to a first AC network with a first frequency f_1 , and a second stator connected to a second AC network with a second frequency f_2 , rotor means rotatable in dependence of the first and second frequencies f_1 , f_2 , and each stator includes at least one winding forming at least one uninterrupted turn, said winding comprising at least one current-carrying conductor, and a magnetically permeable, electric field confining insulating system surrounding the conductor, including an inner layer having semiconducting properties being in electrical contact with the conductor, an insulating layer surrounding the inner layer being in intimate contact therewith, and an outer layer having semiconducting properties surrounding the insulating layer and being in intimate contact therewith, wherein each layer forms a substantially equipotential surface, which permits a voltage level in said rotating synchronous converter exceeding 36 kV.

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Claim 20. (Three Times Amended) A generator device operable with variable rotational speed, where in the generator device comprises a stator for connection to and AC network with a frequency f_2 , a first cylindrical rotor for connection to a turbine, rotatable [as] at a frequency f_1 , wherein the generator device comprises a rotor means being rotatable in dependence of the frequencies f_1 , f_2 , and said stator and said first cylindrical rotor each includes at least one winding forming at least one uninterrupted turn, said winding comprising at least one current-carrying conductor and a magnetically permeable, electric field confining insulating system, including an inner layer having semiconducting properties being in electrical contact with the conductor, an insulating layer surrounding the inner layer being in intimate contact therewith, and an outer layer having semiconducting properties surrounding the insulating layer and being in intimate contact therewith [layers], wherein each layer forms a substantially equipotential surface surrounding the conductor[, and a solid insulation between the semiconducting layers].

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Claim 29. (Twice Amended) A generator device with variable rotational comprising a stator for connection to and AC network with a frequency f_2 , a first cylindrical rotor for connection to a turbine, being rotatable with a frequency f_1 , wherein said generator device comprises rotor means

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being rotatable in dependence of the frequencies f_1 , f_2 , and said stator and said first cylindrical rotor each comprises at least one winding, forming at least one uninterrupted turn, wherein each winding comprises a cable including at least one current-carrying conductor,

each conductor comprises a number of conductive elements,

an inner semiconducting layer surrounding the conductor, and being in electrical contact therewith

an insulating layer of solid insulation surrounding the inner layer and being in intimate contact therewith, and

an outermost layer having semiconducting properties surrounding the insulating layer and being in intimate contact therewith, wherein each inner and outermost layer forms a substantially equipotential surface surrounding the conductor.

Claim 42.(Twice Amended) A rotating asynchronous converter employing a high voltage electric machine comprising a stator, a rotor and a winding, comprising a cable including at least one current-carrying conductor and a magnetically permeable, electric field confining cover surrounding the conductor, said conductor including a plurality of insulated conductive strands and at least one uninsulated conductive strand in contact with the cover, said cable forming at least one uninterrupted turn in the corresponding winding of said machine, and wherein said cable includes

an inner semiconducting layer ^{surrounding} the conductor, and being in electrical contact therewith,

an insulating layer of solid insulation surrounding the inner layer and being in intimate contact therewith, and

an outermost layer having semiconducting properties surrounding the insulating layer and being in intimate contact therewith, wherein each inner and outermost layer forms a substantially equipotential surface surrounding the conductor.

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--55.(Amended) A rotating asynchronous converter for connection of AC networks with equal or different frequencies, wherein the converter comprises a first stator connected to a first AC network with a first frequency f_1 , and a second stator connected to a second AC network with a second frequency f_2 , wherein the converter further comprises rotor means which rotates in dependence of said first and second frequencies f_1 , f_2 , said stators each comprise at least one winding, wherein each

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